

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S7	5	(load\$3 with lock\$3) with bellow with (cassette "foup" "smif")	US-PGPUB; USPAT	OR	ON	2005/12/10 20:43
S8	18	(load\$3 with lock\$3) same bellow same (cassette "foup" "smif")	US-PGPUB; USPAT	OR	ON	2005/12/10 20:32
S9	10	(load\$3 with lock\$3) and bellow and (cassette "foup" "smif")	EPO; JPO; DERWENT	OR	ON	2005/12/10 20:23
S10	18	("5833426").URPN.	USPAT	OR	ON	2005/12/10 20:34
S11	5	("4664578"   "5148714"   "5674039"   "5697750"   "5833426").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/10 20:34
S12	16	("5697750").URPN.	USPAT	OR	ON	2005/12/10 20:35
S13	8	("4260312"   "4616683"   "4995430"   "5044871"   "5056875"   "5139459"   "5169272"   "5433574").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/10 20:38
S14	7	("4616683"   "5484483"   "5769184"   "5833426"   "6032419"   "6042372"   "6048154").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/10 20:40
S15	0	("6551044").URPN.	USPAT	OR	ON	2005/12/10 20:40
S16	25	(118/719.cds. 156/345.31.cds. 156/345.32.cds.) and (bellows same (load\$3 with lock\$3))	US-PGPUB; USPAT	OR	ON	2005/12/10 20:44
S17	24	S16 not S8	US-PGPUB; USPAT	OR	ON	2005/12/10 20:44
S18	19	("5571330").URPN.	USPAT	OR	ON	2005/12/10 20:47
S19	9	("4962726"   "5088444"   "5127365"   "5156521"   "5224999"   "5232508"   "5260547"   "5433784"   "5462397").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/10 20:47
S20	11	("4293249"   "4405435"   "4553069"   "4664578"   "4687542"   "4746256"   "4764076"   "4775281"   "4781511"   "4789294"   "4815912").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/10 20:48
S21	10	("5156521").URPN.	USPAT	OR	ON	2005/12/10 20:50
S22	1	tseng-yen-hsiung.in. tsai-chi-hsiang.in. mo-ming-te.in.	US-PGPUB; USPAT	OR	ON	2005/12/10 21:33
S23	66	"intermittently transferred"	US-PGPUB	OR	ON	2005/12/10 21:33
S24	2	"intermittently transferred" and "118"/\$.cds.	US-PGPUB	OR	ON	2005/12/10 21:33
S25	29	(US-20020074225-\$ or US-20030000476-\$ or US-20050155710-\$).did. or (US-4616683-\$ or US-4713551-\$ or US-5148714-\$ or US-5156521-\$ or US-5433574-\$ or US-5571330-\$ or US-5697750-\$ or US-5769184-\$ or US-5833426-\$ or US-5863602-\$ or US-6042372-\$ or US-6048154-\$ or US-6106582-\$ or US-6348073-\$ or US-6508259-\$ or US-6551044-\$ or US-6641702-\$ or US-6743329-\$ or US-6752874-\$).did. or (EP-848412-\$).did. or (JP-05055344-\$ or JP-06120159-\$ or JP-06326036-\$ or JP-08124916-\$).did. or (EP-848412-\$ or US-20050155710-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/12/11 12:50
S26	1	S25 and (rotat\$4 with magnet)	US-PGPUB; USPAT	OR	ON	2005/12/11 12:51
S27	5	S25 and (rotat\$4 with magnet\$6)	US-PGPUB; USPAT	OR	ON	2005/12/11 12:53
S28	130	(118/715-733.cds. 156/345.\$.cds.) and (shaft with rotat\$4 with magnet\$6)	US-PGPUB; USPAT	OR	ON	2005/12/11 12:57
S29	2	(118/715-733.cds. 156/345.\$.cds.) and ((shaft with rotat\$4 with magnet\$6) same (cassette "foup" "smif"))	US-PGPUB; USPAT	OR	ON	2005/12/11 12:55

## EAST Search History

S30	173	((shaft with rotat\$4 with magnet\$6) same (cassette "foup" "smif"))	EPO; JPO; DERWENT	OR	ON	2005/12/11 12:55
S31	57	((shaft with rotat\$4 with magnet\$6) same (cassette "foup" "smif")) and load\$3	EPO; JPO; DERWENT	OR	ON	2005/12/11 12:56
S32	3	((shaft with rotat\$4 with magnet\$6) same (cassette "foup" "smif")) and load\$3 and (substrate wafer semiconductor workpiece)	EPO; JPO; DERWENT	OR	ON	2005/12/11 12:56
S33	60	(118/715-733.cds. 156/345\$.cds.) and (shaft with rotat\$4 with magnet\$6 with (stage hold\$3 susceptor table cassette "smif" "foup" support\$3))	US-PGPUB; USPAT	OR	ON	2005/12/11 15:05
S34	4	(118/715-733.cds. 156/345\$.cds.) and (shaft with rotat\$4 with magnet\$6 with (stage hold\$3 susceptor table cassette "smif" "foup" support\$3) with bellow)	US-PGPUB; USPAT	OR	ON	2005/12/11 13:01
S35	60	(118/715-733.cds. 156/345\$.cds.) and (shaft with rotat\$4 with magnet\$6 with (stage hold\$3 susceptor table cassette "smif" "foup" support\$3) )	US-PGPUB; USPAT	OR	ON	2005/12/11 13:40
S36	3	((("5697750") or ("6551044") or ("5156521"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/12/11 13:40
S37	1	S36 and rotat\$4	US-PGPUB; USPAT	OR	ON	2005/12/11 14:57
S38	1	("5697750").PN.	US-PGPUB; USPAT	OR	OFF	2005/12/11 14:57
S39	105	(118/715-733.cds. 156/345\$.cds.) and (bellows with stainless with steel)	US-PGPUB; USPAT	OR	ON	2005/12/11 15:07
S40	1	S39 and S25	US-PGPUB; USPAT	OR	ON	2005/12/11 15:05
S41	0	(118/715-733.cds. 156/345\$.cds.) and ((bellows with stainless with steel) same (magnet\$4 with rotat\$4))	US-PGPUB; USPAT	OR	ON	2005/12/11 15:08
S42	17	(118/715-733.cds. 156/345\$.cds.) and ((bellows with stainless with steel) and (magnet\$4 with rotat\$4))	US-PGPUB; USPAT	OR	ON	2005/12/11 15:15
S43	1	("5324540").PN.	US-PGPUB; USPAT	OR	OFF	2005/12/11 15:15
S44	35	(US-20020074225-\$ or US-20050155710-\$ or US-20030000476-\$).did. or (US-6042372-\$ or US-6048154-\$ or US-4616683-\$ or US-5433574-\$ or US-5148714-\$ or US-5863602-\$ or US-5697750-\$ or US-6106582-\$ or US-6348073-\$ or US-6551044-\$ or US-5833426-\$ or US-4713551-\$ or US-6641702-\$ or US-5121705-\$ or US-5779803-\$ or US-4908095-\$ or US-6743329-\$ or US-5324540-\$ or US-5156521-\$ or US-5571330-\$ or US-4681773-\$ or US-6508259-\$ or US-6752874-\$ or US-5769184-\$ or US-5709772-\$).did. or (EP-848412-\$).did. or (JP-08124916-\$ or JP-06326036-\$ or JP-06120159-\$ or JP-05055344-\$).did. or (US-20050155710-\$ or EP-848412-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/08/03 18:35
S45	0	"10761569"	US-PGPUB; USPAT	OR	ON	2006/08/03 18:37
S46	1	"10/761,569"	US-PGPUB; USPAT	OR	ON	2006/08/03 18:38
S47	1	"10/761,659"	US-PGPUB; USPAT	OR	ON	2006/08/03 18:47
S48	10	(load\$3 with lock\$3) with (metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust conaminant contamination particle particulate vapor)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:30
S49	22	(load\$3 with lock\$3) same ((metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust conaminant contamination particle particulate vapor))	US-PGPUB; USPAT	OR	ON	2006/08/03 18:53

## EAST Search History

S50	0	(load\$3 with lock\$3) same (lubricant with (metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust conaminant contamination particle particulate vapor))	US-PGPUB; USPAT	OR	ON	2006/08/03 18:53
S51	1	(load\$3 with lock\$3) same (lubricant with (metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4 debris dust conaminant contamination particle particulate vapor))	US-PGPUB; USPAT	OR	ON	2006/08/03 18:53
S52	27	(load\$3 with lock\$3) same (lubricant with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4 debris dust conaminant contamination particle particulate vapor))	US-PGPUB; USPAT	OR	ON	2006/08/03 18:54
S53	564	(load\$3 with lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust conaminant contamination particle particulate vapor lubricant))	US-PGPUB; USPAT	OR	ON	2006/08/03 18:54
S54	41	(load\$3 with lock\$3) same ((attract\$4 trap\$4 getter\$4 ) with (debris dust conaminant contamination particle particulate vapor lubricant))	US-PGPUB; USPAT	OR	ON	2006/08/03 18:54
S55	5	(load\$3 with lock\$3) with (metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (contaminant contamination )	US-PGPUB; USPAT	OR	ON	2006/08/03 19:02
S56	5	(load\$3 with lock\$3) with (metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (contaminant )	US-PGPUB; USPAT	OR	ON	2006/08/03 19:10
S57	36	(load\$3 with lock\$3) and (metal copper aluminum titanium nickel cobalt tantalum iron) and (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) and (debris dust conaminant contamination particle particulate vapor)	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:09
S58	110	(load\$3 with lock\$3) same (metal copper aluminum titanium nickel cobalt tantalum iron) same (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) same (debris dust conaminant contamination particle particulate vapor)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:10
S59	2	(c23c016\$.ipc. c23f001\$.ipc. h01i021\$.ipc.) and ((load\$3 with lock\$3) with (copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4))	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:12
S60	5	(c23c016\$.ipc. c23f001\$.ipc. h01i021\$.ipc.) and ((copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with lubricant)	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:20
S61	7	(load\$3) and ((copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with lubricant)	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:14
S62	2	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and ((copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with lubricant)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:18
S63	2	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and ((metal\$4copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with lubricant)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:15
S64	3	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and ((metal\$4 copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with lubricant)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:16
S65	0	aonuma-daishke.in.	US-PGPUB; USPAT	OR	ON	2006/08/03 19:17
S66	0	aonuma-daishke.in. morita-narihisa.in.	US-PGPUB; USPAT	OR	ON	2006/08/03 19:17
S67	2	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and (load\$3 with lock\$3 with lubricant)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:19

## EAST Search History

S68	1	(c23c016\$.ipc. c23f001\$.ipc. h01l021\$.ipc.) and (load\$3 with lock\$3 with lubricant)	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:20
S69	2	(c23c016\$.ipc. c23f001\$.ipc. h01l021\$.ipc.) and ((load\$3 with lock\$3) and lubricant)	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:21
S70	0	(c23c016\$.ipc. c23f001\$.ipc. h01l021\$.ipc.) and ( lubricant with (attract\$4 captur\$4))	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:21
S71	36	(c23c016\$.ipc. c23f001\$.ipc. h01l021\$.ipc.) and ( lubricant with (attract\$4 captur\$4 remov\$4 filter\$4 getter\$4 trap\$4))	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:26
S72	0	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and ( lubricant with (attract\$4 captur\$4 remov\$4 filter\$4 getter\$4 trap\$4))	EPO; JPO; DERWENT	OR	ON	2006/08/03 19:27
S73	23	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and ( lubricant with (attract\$4 captur\$4 remov\$4 filter\$4 getter\$4 trap\$4))	US-PGPUB; USPAT	OR	ON	2006/08/03 19:30
S74	536	(118/715-733.cds. 156/345\$.cds. 414/935-941.cds. 414/217-221.cds. ) and ( load\$3 with lock\$3 with (attract\$4 captur\$4 remov\$4 filter\$4 getter\$4 trap\$4))	US-PGPUB; USPAT	OR	ON	2006/08/03 19:30
S75	15	(load\$3 with lock\$3) with (metal copper aluminum titanium nickel cobalt tantalum iron) with (attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust contaminant contamination particle particulate vapor) with (debris dust contaminant contamination particle particulate vapor lubricat\$5)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:31
S76	661	(load\$3 with lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust contaminant contamination particle particulate vapor lubricat\$5))	US-PGPUB; USPAT	OR	ON	2006/08/03 19:32
S77	542	(load\$3 adj1 lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust contaminant contamination particle particulate vapor lubricat\$5))	US-PGPUB; USPAT	OR	ON	2006/08/03 19:34
S78	174	S77 and (lubricant lubricat\$4 bellow)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:33
S79	4	(load\$3 adj1 lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with ( lubricat\$5 lubricant))	US-PGPUB; USPAT	OR	ON	2006/08/03 19:34
S80	460	(load\$3 adj1 lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust contaminant contamination particle particulate vapor lubricat\$5 lubricant) same (wafer substrate semiconductor workpiece))	US-PGPUB; USPAT	OR	ON	2006/08/03 19:35
S81	460	(load\$3 adj1 lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust contaminant contamination particle particulate vapor lubricat\$5 lubricant)) same (wafer substrate semiconductor workpiece)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:36
S82	8	(load\$3 adj1 lock\$3) same ((attract\$4 trap\$4 getter\$4 remov\$4 clean\$4 filter\$4) with (debris dust contaminant contamination particle particulate vapor lubricat\$5 lubricant)) same (wafer substrate semiconductor workpiece) same (shaft bellow pole pipe)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:39
S83	108	(load\$3 adj1 lock\$3) same (copper aluminum titanium nickel cobalt tantalum iron) same (debris dust contaminant contamination particle particulate vapor lubricat\$5 lubricant)	US-PGPUB; USPAT	OR	ON	2006/08/03 19:40
S84	58	(load\$3 adj1 lock\$3) same (copper aluminum titanium nickel cobalt tantalum iron) same (debris dust contaminant contamination particle particulate vapor lubricat\$5 lubricant) same vapor	US-PGPUB; USPAT	OR	ON	2006/08/03 19:40
S85	51	(load\$3 adj1 lock\$3) same ((copper aluminum titanium nickel cobalt tantalum iron) with (debris dust contaminant contamination particle particulate vapor lubricat\$5 lubricant))	US-PGPUB; USPAT	OR	ON	2006/08/04 11:52
S86	1	("5156521").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/04 11:52
S87	10	("5156521").URPN.	USPAT	OR	ON	2006/08/04 12:01

## EAST Search History

S88	11	("4293249"   "4405435"   "4553069"   "4664578"   "4687542"   "4746256"   "4764076"   "4775281"   "4781511"   "4789294"   "4815912").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/04 12:04
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